

SPECIFICATION AMENDMENTS

Replace paragraph [0001] in the specification as originally filed with the following:

The present invention relates to an information processing device and an information processing method that ~~register~~ registers data into a data table where first item data is registered along with corresponding second item data, and retrieve the second item data corresponding to the first item data from the data table, and further relates to a program that enables a computer to function as such an information processing device, a data structure possessed by such an information processing device, a computer-readable recording medium recording therein such a program, and a computer-readable recording medium storing therein such a data structure.

Replace paragraph [0005] in the specification as originally filed with the following:

Particularly, when connection places are not fixed like mobile products, it is possible that a relationship between MAC addresses and ports of a switch or ~~rooter~~ router changes momentarily, and addition and deletion of data relative to a MAC address table are constantly repeated. Therefore, inasmuch as averaging of data variance by the use of a hash function breaks down following the addition and deletion of data in the MAC address table, it is necessary to frequently perform sorting of data by changing hash function.

Replace paragraph [0008] in the specification as originally filed with the following:

[0008] Means for solving the Problems.For accomplishing the foregoing object,

according to the present invention, an information processing device and an information processing method, as shown in FIG. 1, use a data table 101 where first item data are registered along with corresponding second item data, and a pointer table where pointers to the registered data in the data 101 are registered in storage positions that are designated by hash values obtained by applying a predetermined hash function to the first item data of the registered data, wherein registration means 102 implements a registration into the data table 101 with respect to object first item data along with corresponding second item data, or retrieval means 103 implements a retrieval of the corresponding second item data from the data table 101 with respect to object first item data. The present invention is characterized in that the hash function comprises a first hash function and a second hash function, and the pointer table comprises a first pointer table 104 and a second pointer table 105 that are referred to using hash values derived based on the first and second hash functions, respectively.